

GC362-2

Esterase Enzymes, DNA Encoding Esterase
Enzymes and Vectors and Host Cells
Incorporating Same
Borneman et al.
SN# 09/981,430
Docket No. GC362-2D1

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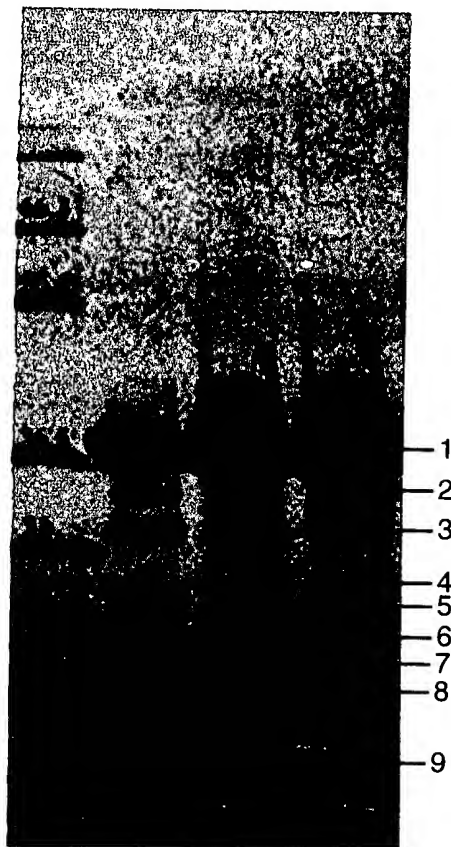


FIG._1

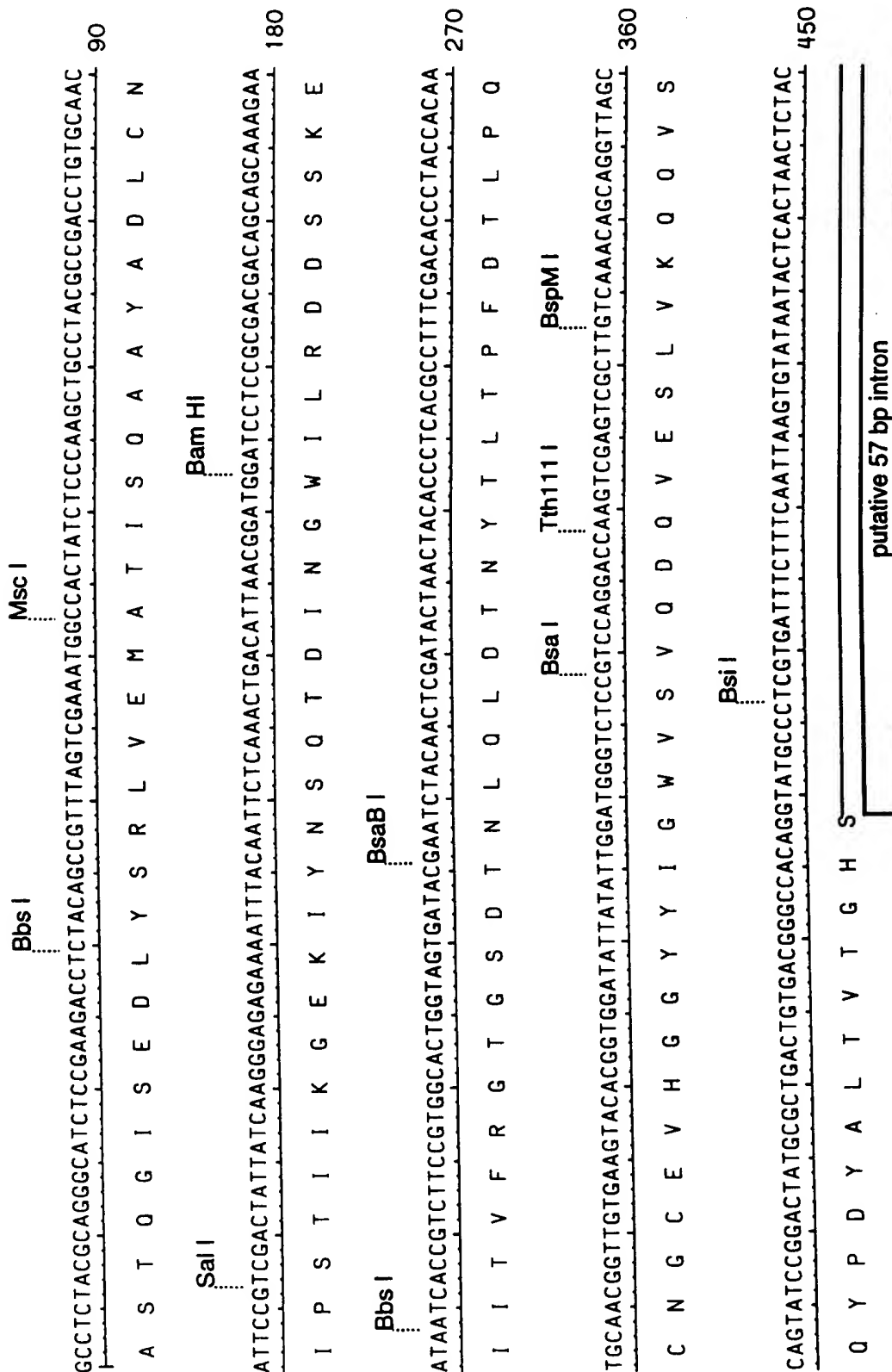
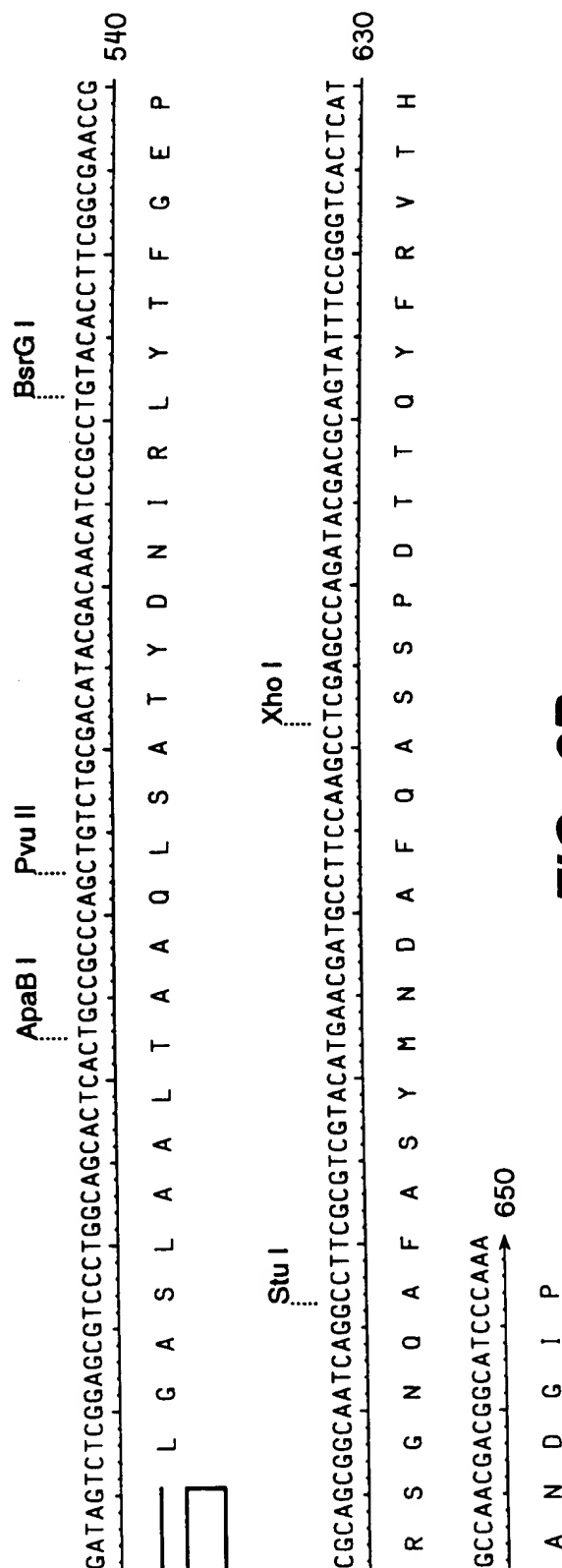


FIG..2A



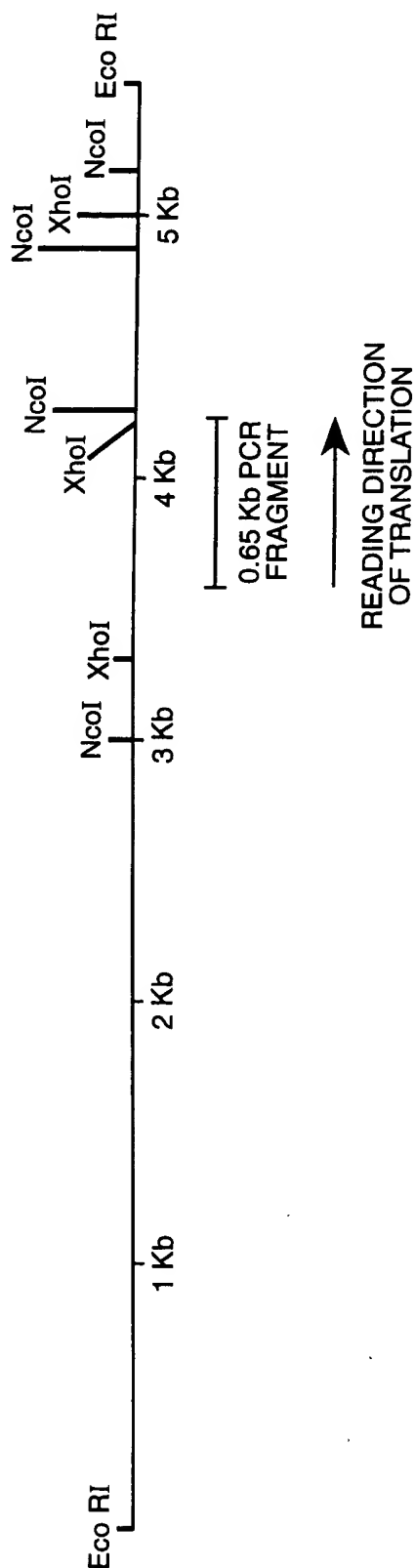
**FIG.-3**

FIG. 4A

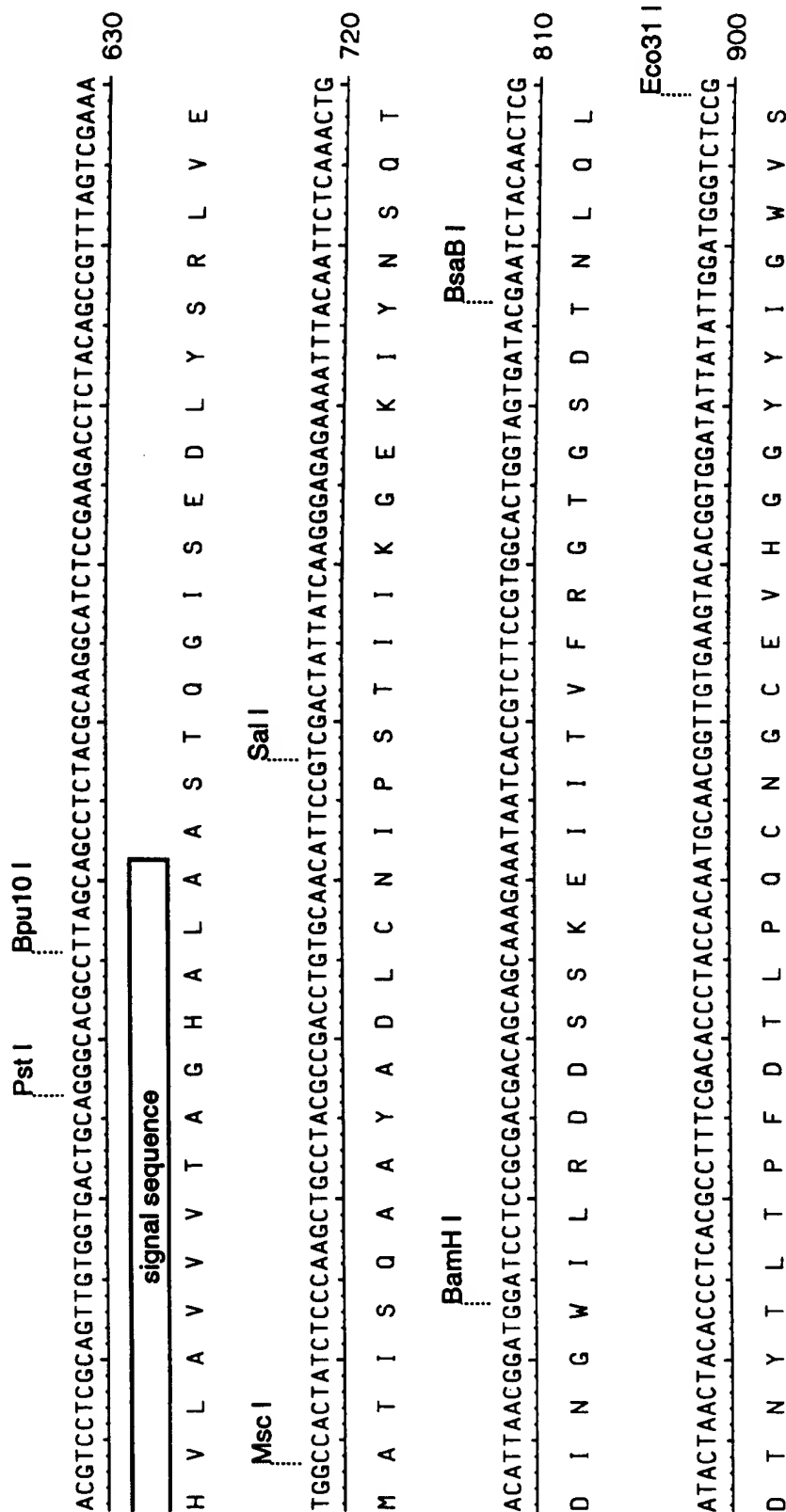


FIG._4B

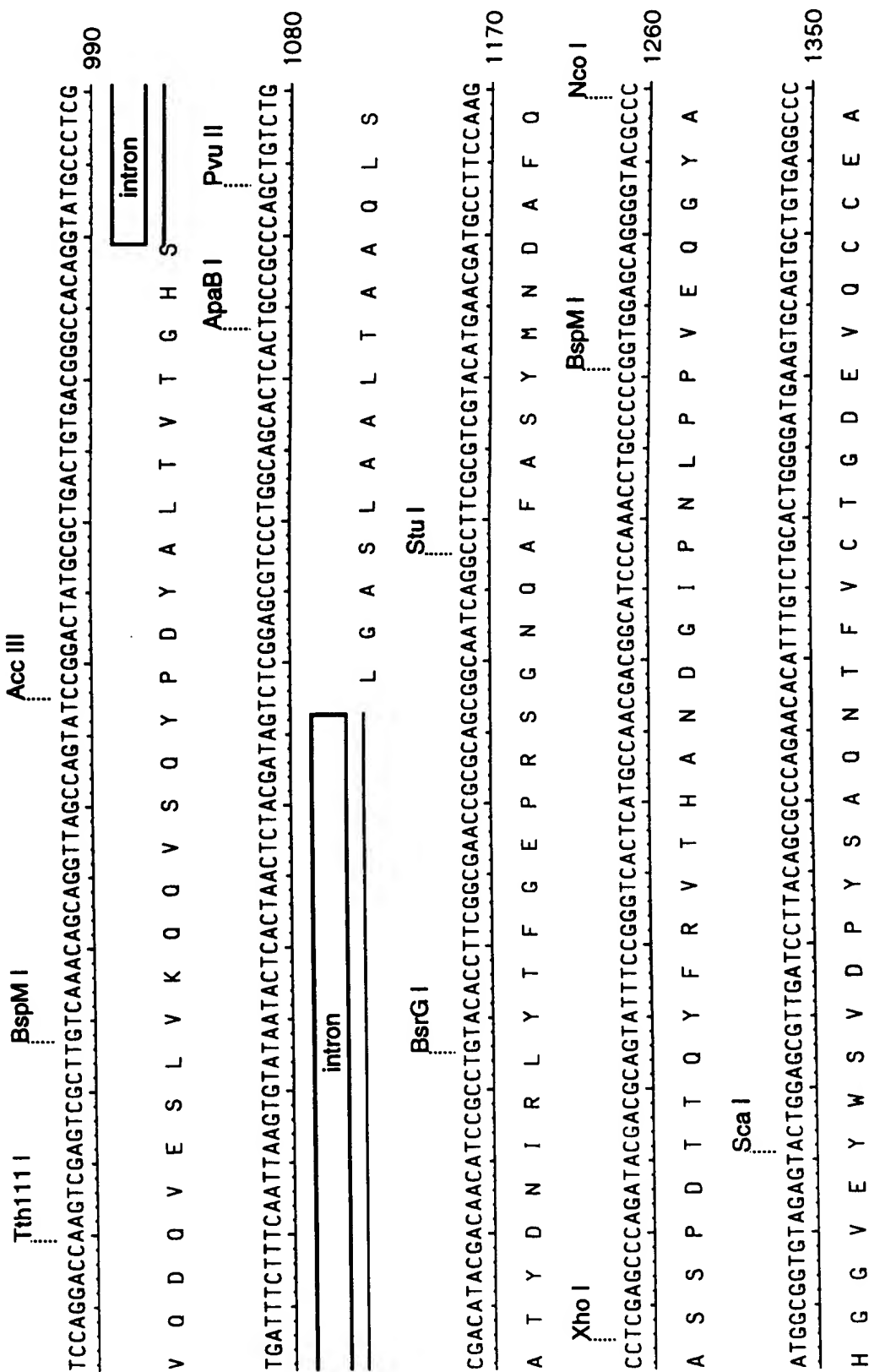


FIG. 4C

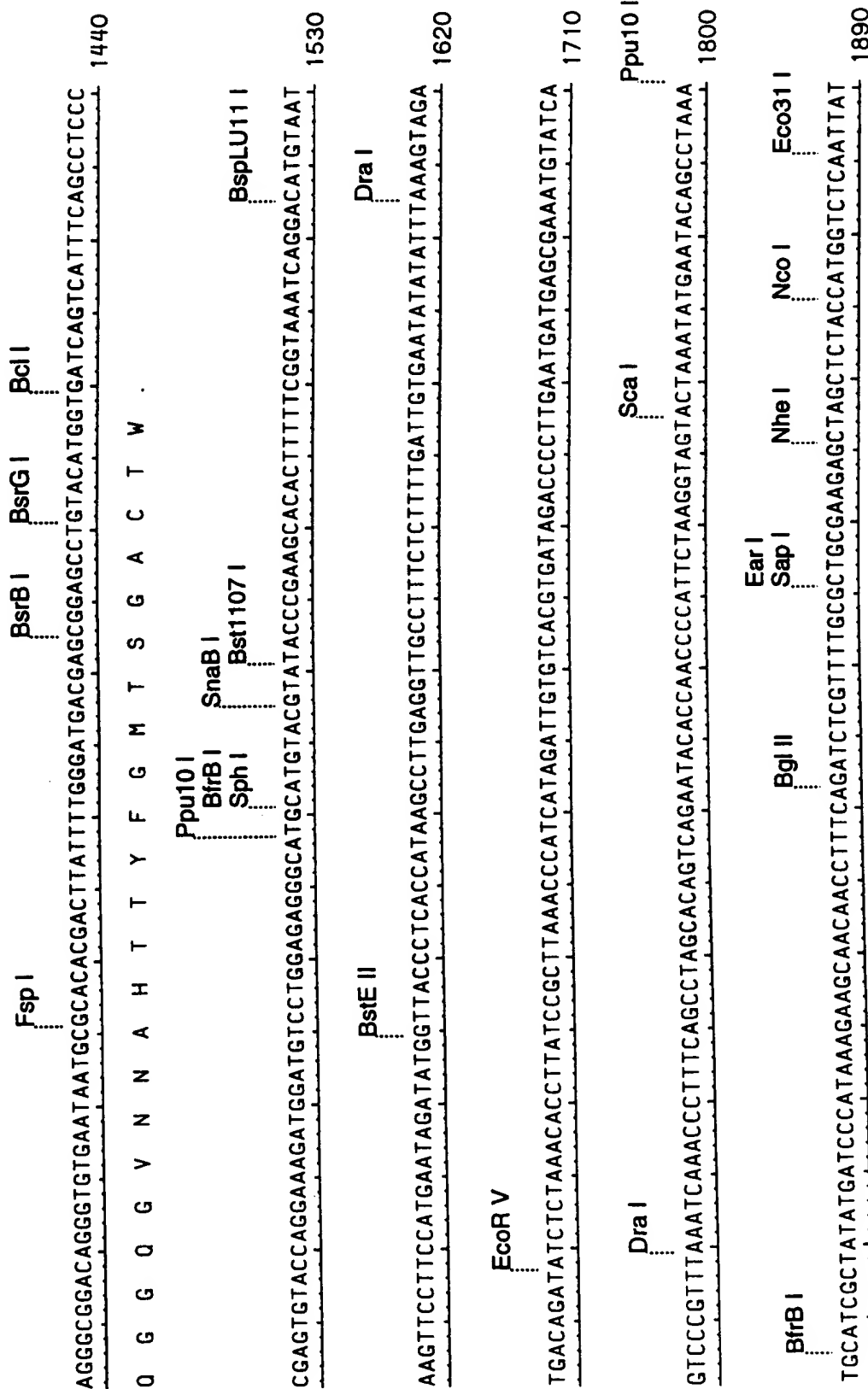


FIG._4D

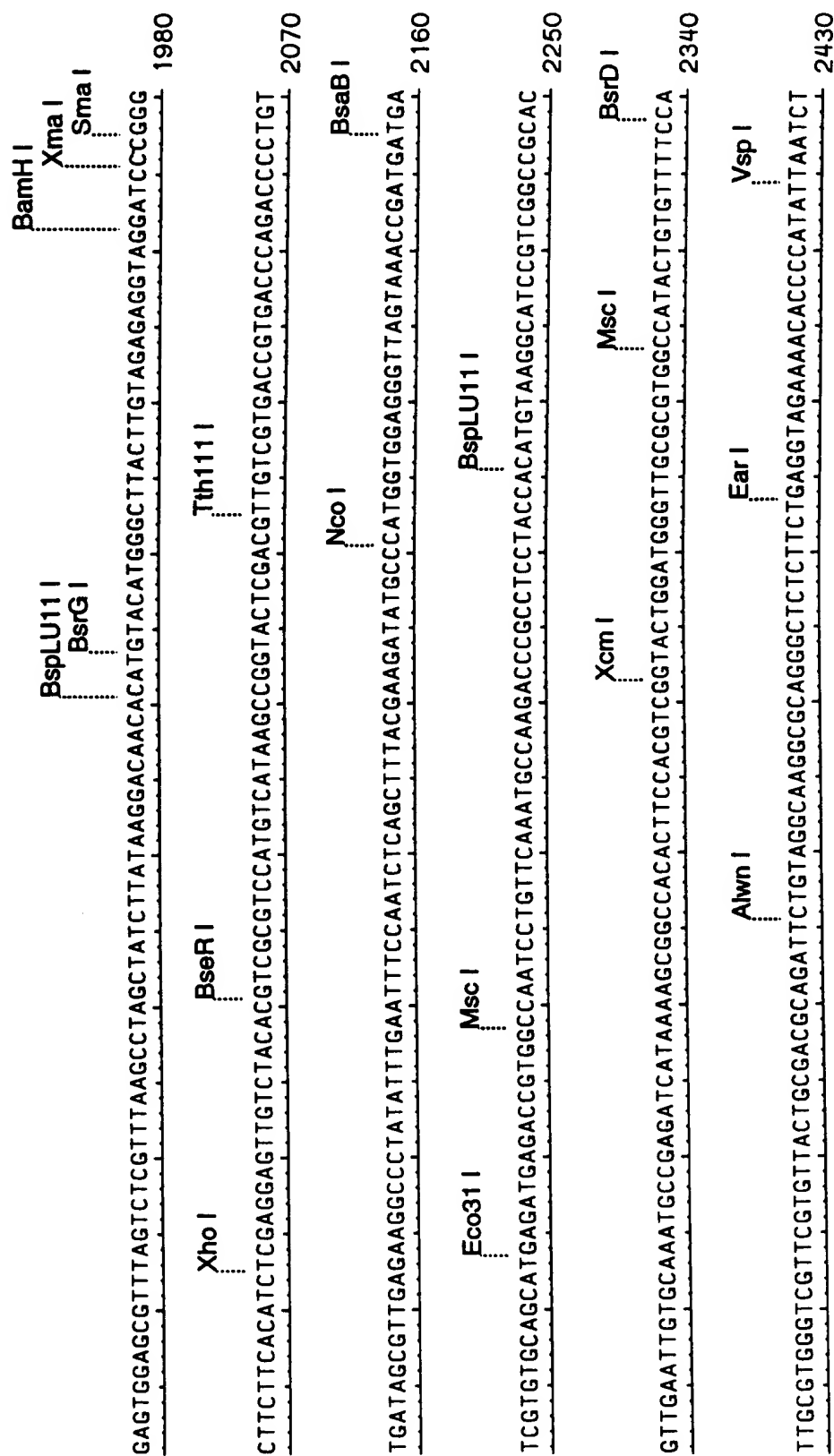


FIG. 4E

CCATGGTGGTGTGATATCGGCAGTAGTCTTTGCGGAAACGTTGAGGGTTACAGTGATCTGCGTCGGACATACCTT
CGGGGAATCTACGGCGGAATATCAAAAGTCTTCGGAAATATCCATATTTGGGAAAGGACAGAAAGCTCCGGGGTAGTTT
GATAGATGAGCTCCGGTGTATTAATCGGGAGCTGACAGGAGTGAGCGTCATGTAGACCATCTAGTAAATGTCAGT
CGCGGCAATTTCCGACATGAACAAGTTGATTTTCGGGACCCCATGTGTACATCTCTCGGCTACAGCTCGAGATG
TGCTGCGGAGTATACCTTAAGAGCCATGCGAGCTGTTGTATACGACCAAAAGTCAGGGAATATGAACGATCG
TCGGATATTTCTGTTTTATCCCTAAATTAGTCTTCAGTGTTTATTTAAAGAGATAGATCCCTTCACAAACACT
CATCCAAAGGACTTCTCATACCACTCATTTGACATAATTTCAAAACAGCTCCAGGCGCATTTAGTTCAAACATGAAGC
AATTCCTCCGCAACACGCTCCGAGTTGTGGTGAATGAGGCACTATCTCCCAAGCTGCTACGCCGACCTGACAAAGCATCT
CCGAAGACCTCTACAGCCGTTTAGTCGAAATGAGGCACTATCTCCCAAGCTGCTACGCCGACCTGACAAAGCATCT
CGTCGACTATTAACAAGGAGAGAAATTTACAATTTCAAACTGACATTAACGGATGATCTCCGACGAGACA
GCAGCAAGAAATAATCACCGCTTCCGTTGGCACTGGTAGTACGAACTCAAACTCGATCTCGATCTAACTACACCC
TCACGCCTTTCGACACCCCTACCAATGCAACGGTTGTGAAGTACACGGTGGATATTAATTTGGATGGGTCTCTCG
TCCAGGACCAAGTCGAGTCGCTTGTCAAAACAGCAGGTTAGCCAGTATCCGGACTATGCGCTGACTGTGACGGGCC
ACAGGTATGCCCCGCTGATTTCTTCAATTAAGTATAATCTCACTCACTCACTACGATAGTCTCGGAGCGTCCC
TGGAGCACTCACTGCCCCGCTGCTGCGACATACGACAAACATCCGCCCTGTACACCTTCGGCGAAACCGCGCA
GGGCAATCAGGCTTCGCGCTGCTACATGAACGATGCCCTTCCAAAGCTCCGAGCCAGATACGACGAGTATTTCC
GGTCACTCATGCAACGACGCAATCCCAACCTGCCCTCCGGTGAGCAGGGGTACGCCCAAGCGGCTGTAGAGT
ACTGGAGCGTTGATCCTTACAGCGCCCAAGAACACTTTGTCTGCACTGGGGATGAAGTGCAAGTGTGAGGCC
AGGGCGGACAGGGTGTGAATAATGCGCACACGACTTATTTTGGGATGACGAGCGGAGCTGTACATGTTGATCAG
TCATTTTCAGCCCTCCCGAGTGTACAGGACATGTATAAGTTCCTCCATGAATAGATATGTTACCTCAACCAAGCCTT
ACACTTTTCGGTAAATCAGGACATGTATAAGTTCCTCCATGAATAGATATGTTACCTCAACCAAGCCTT
GAGGTGCTTCTCTTTGATTGTGAATATATATTTAAAGTAGATGACAGATATCTCTAAACACCTTATCCGCT
TAAACCCATCATAGATTGTGTACGTGATAGACCCCTTGAATGATGAGCGAAATGTATCAGTCCCGTTTAAATCA
AACCTTTTCAGCCTAGCACAGTCAGAAATACACCAACCCCTTCAAGGTAGTACTAAATATGAAATACAGCCTAA
TGATCGCTATATGATCCCATAAAGAGCAACACCTTTCAGATCTCGTTTTCGGCTGCGAAGAGCTAGCTCTAC
CATGGTCTCAATATAGTGGAGCGTTTAGTCTCGTTTAAAGCTAGCTATCTTATAAGGACAAACACATGTACATG
GGCTTACTTGTAGAGGTAGGATCCCGGCTTCTTCACTCTCGAGGAGTTGTCTACACGTCGCGTCCATGTCA
TAAGCCGGTACTCGACGTTGTGTCGACCGTGACCCAGACCCCTGTTGATAGCGTTGAGAAAGGCCCTATATTGAA
TTTCCAAATCTCAGCTTACGAAAGATATGCCATGGTGGAGGTTAGTAAACCGATGATGATCGTGTGACGATGA
GATGAGACCGTGGCCAAATCCCTGTTCAAAATGCCAAGACCCGCTCCCTACCATGTAAAGCATCCGTGCGCGCAC
GTTGAATTGTGCAAAATGCCGAGATCATAAAGCGGCCACACTTCCAGTCCGTTGATGGTGTGCGCGTGGCC
ATACTGTGTTTCCATTGCGTGGGTCGTTCTGTTACTGCGACGCGAGATTCTGTAGGCAAGGCGCAGGGCTCTCT
TCTGAGGTAGAAACACCCCATATTAATCTGAATTC

FIG.-5

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1 2 3 4 5 6 7 8 9 10 11 12 13 14



FIG._6

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

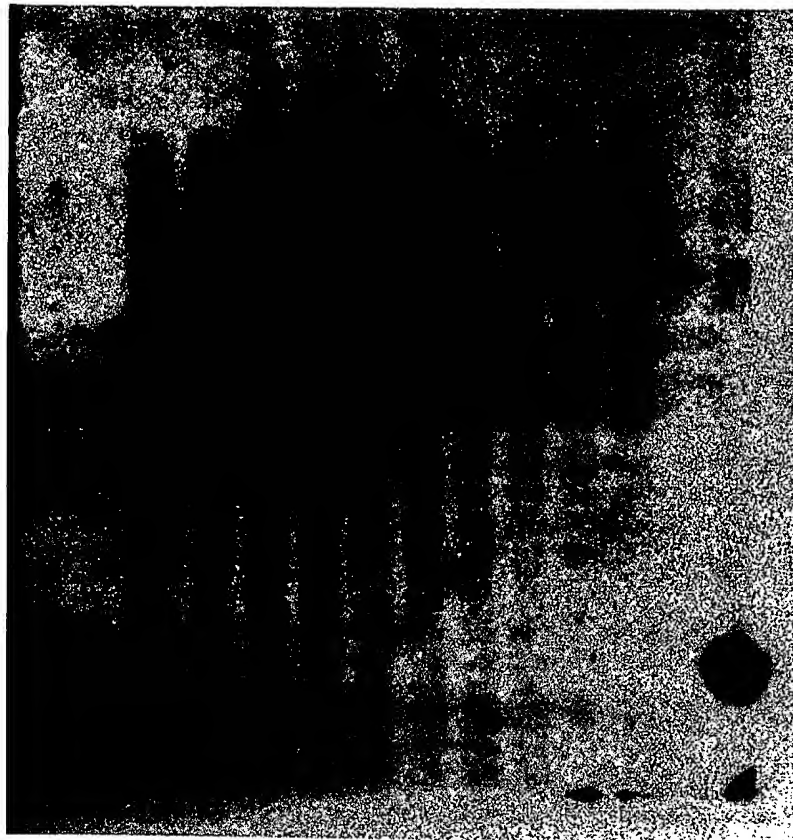


FIG._7